
BRECKINRIDGE COUNTY

(Breckinridge County Water Service Area Map)

- Estimated 1999 population of 17,600--50% on public water
- Estimated 2020 population of 19,600--55% on public water
- 170 miles of water lines, with plans for 34 additional miles
- Estimated funding needs for public water 2000-2005--\$1,000,000
- Estimated funding needs for public water 2006-2020--\$900,000

Breckinridge County had an estimated population of 17,578 (7,276 households) in 1999 with a projected population of 19,636 (8,662 households) in 2020. Public water is provided to 3,900 customers, or about 50 percent of the county's residents. Even after proposed projects are considered there is still a significant portion of the county that will not be served. These areas are logistically and monetarily precluded from being served in the foreseeable future. In areas of the county not served by public water, about half the households rely on private domestic wells and half the households rely on other sources. About 440 customers will be added to public water service through new line extensions in 2000-2020.

Estimated Costs - Proposed Projects, 2000-2005

COUNTY/System		New Customers		Rehab	Source	Treatment	Tanks/ Pumps	Total
	Miles	Number	Cost in \$1000	in \$1000	in \$1000	in \$1000	in \$1000	in \$1000
BRECKINRIDGE								
City of Hardinsburg	24	237	1,000					1,000
TOTAL	24	237	1,000					1,000

Estimated Costs - Proposed Projects, 2006-2020

COUNTY/System		New Customers		Rehab	Source	Treatment	Tanks/ Pumps	Total
	Miles	Number	Cost in \$1000	in \$1000	in \$1000	in \$1000	in \$1000	in \$1000
BRECKINRIDGE								-
City of Hardinsburg	10	203	900					900
TOTAL	10	203	900					900

PUBLIC WATER SYSTEMS

The residents of Breckinridge County are presently provided water by 6 providers: 3 municipal--The City of Hardinsburg, the City of Irvington and the City of Cloverport--2 private, community, and 1 non-community systems. Only the City of Hardinsburg is capable

WATER SERVICE AREAS BRECKINRIDGE COUNTY Kentucky

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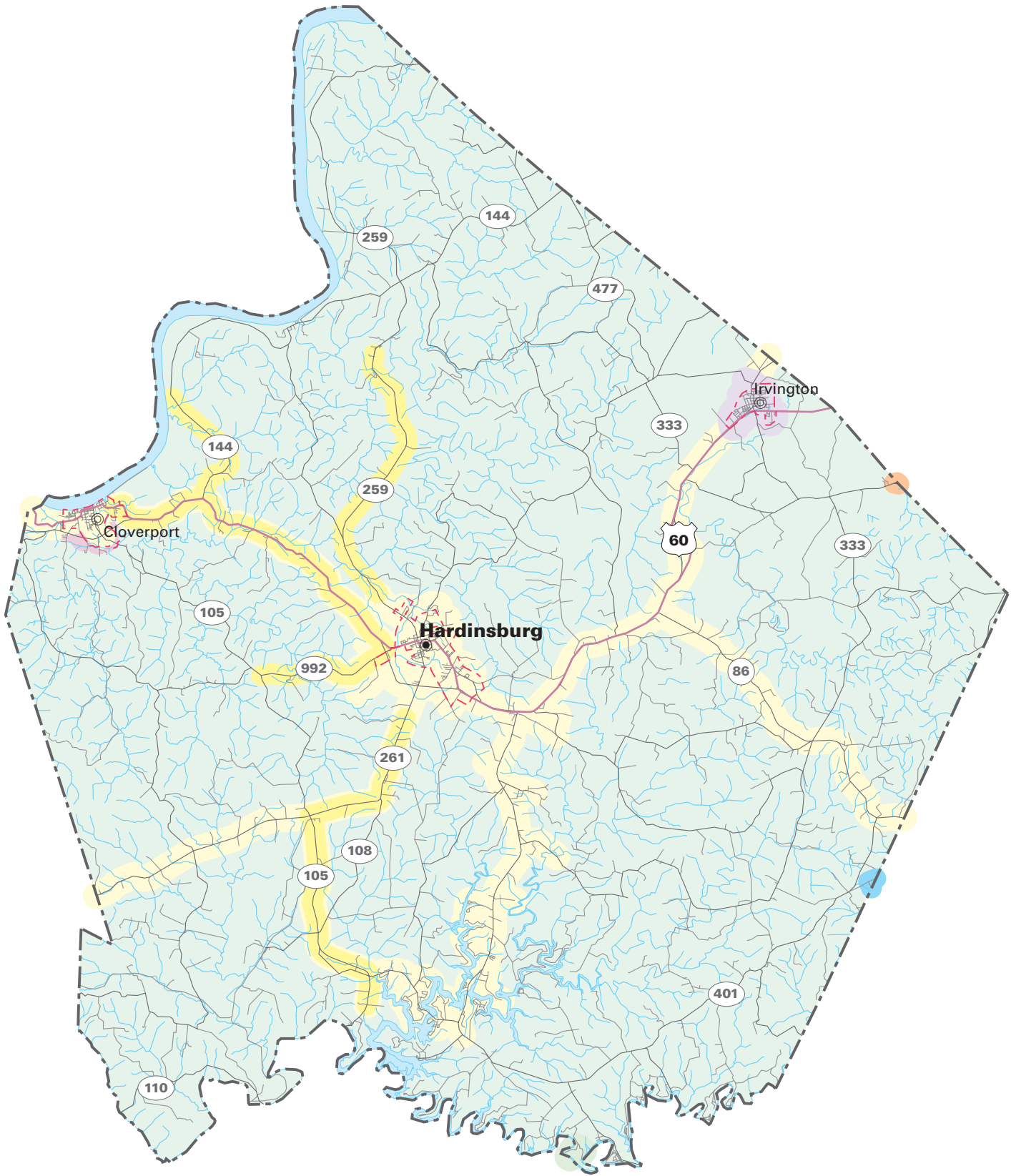
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WATER SERVICE STATUS BY OWNER		
EXISTING SERVICE AREA	PROPOSED SERVICE AREA	
		MEADE COUNTY WATER DISTRICT
		LEITCHFIELD WATER WORKS
		IRVINGTON WATER SYSTEM
		HARDINSBURG WATER
		HARDIN COUNTY WATER DISTRICT #1
		CLOVERPORT WATER AND SEWER SYSTEM



of expansion. The others being very small communities and lacking funds to undertake such an endeavor.

There has been mention of a 3-4 MGD, \$6-\$8 million regional water treatment plant to be located near Cloverport. Since this is in the preliminary stages and has not been openly discussed by either municipality, it has not been included as a potential project, however it does deserve inclusion in the narrative.

HARDINSBURG WATER

PWSID: 0140966
System Type: COMMUNITY
Owner Type: MUNICIPAL
Surface Source: ROUGH RIVER RESERVOIR
Purchase Source:
Well Source:
Sells Water to:
Treatment Plant Capacity (MGD): 1.80
Percent Daily Average Production: 48.00
Total Tank Storage Capacity (gallons): 1,160,000.00
Total Service Connections: 2,776.00
Number of Employees: 0.00
Treatment Operator Class: 2D
Distribution Operator Class: 3A
Customer Rate for 1,000 Gallons: 4.74
O/M costs 1997: Not available
O/M costs per Service Connection: Not available
Net Revenue 1997: Not available
Total Water Produced 1997 (gallons): Not available
Water Sold 1997 (gallons): Not available
Unaccounted-for Water 1997 (%): Not available

The City of Hardinsburg gets its water from Rough River Lake. According to the Breckinridge County Water Supply Plan Rough River Lake has an adequate supply of water to support any future needs. The District currently services 2,776 customers in Breckinridge County. The Hardinsburg Water Treatment Plant, has a production capacity of approximately 1.8 million gallons per day. On the average, the plant produces approximately 695,000 gallons per day. The plant operates at approximately 39% of capacity. The City of Hardinsburg operates six storage tanks with a combined storage capacity of 1,162,000 gallons. The calculated charge for 4,000 gallons of treated water (residential usage) is currently \$18.35 within the city limits and \$19.55 outside the city limits, which when compared to the other water districts within Lincoln Trail ADD is considered reasonable.

After completion of proposed projects there will be approximately 3,841 total customers in the City of Hardinsburg Service Area.

CLOVERPORT WATER AND SEWER SYSTEM

PWSID: 0140079
System Type: COMMUNITY
Owner Type: MUNICIPAL
Surface Source:
Purchase Source:
Well Source:
Sells Water to:
Treatment Plant Capacity (MGD): 0.40
Percent Daily Average Production: 42.00
Total Tank Storage Capacity (gallons): 0.00
Total Service Connections: 614.00
Number of Employees: 1.00
Treatment Operator Class:
Distribution Operator Class: 2BD
Customer Rate for 1,000 Gallons: Not available
O/M costs 1997: Not available
O/M costs per Service Connection: Not available
Net Revenue 1997: Not available
Total Water Produced 1997 (gallons): Not available
Water Sold 1997 (gallons): Not available
Unaccounted-for Water 1997 (%): Not available

IRVINGTON WATER SYSTEM

PWSID: 0140206
System Type: COMMUNITY
Owner Type: MUNICIPAL
Surface Source:
Purchase Source:
Well Source:
Sells Water to:
Treatment Plant Capacity (MGD): 0.00
Percent Daily Average Production: 0.00
Total Tank Storage Capacity (gallons): 0.00
Total Service Connections: 0.00
Number of Employees: 0.00
Treatment Operator Class: 2D
Distribution Operator Class:
Customer Rate for 1,000 Gallons: Not available
O/M costs 1997: Not available
O/M costs per Service Connection: Not available
Net Revenue 1997: Not available
Total Water Produced 1997 (gallons): Not available
Water Sold 1997 (gallons): Not available
Unaccounted-for Water 1997 (%): Not available

OTHER SYSTEMS

RIVER BEND WATER SYSTEM

River Bend Water System is located in Breckinridge County. The private, community system serves a population of 200 and has 60 service connections. The water source is wells.

WILDWOOD ESTATES

Wildwood Estates is located in Breckinridge County. The system serves a population of 69 and has 21 service connections. The private, community system has treatment capacity of 28,800 gallons per day. The water source is wells.

CUSTER SCHOOL

Custer School is located in Breckinridge County. The system serves a population of 220 and has 1 service connection. The local, non-transient, non-community system has treatment capacity of 20,000 gallons per day. The water source is from cisterns.

PRIVATE DOMESTIC SYSTEMS

About 8,600 residents of Breckinridge County rely on private domestic water supplies: 4,300 on wells and 4,300 on other sources.

In the northwestern edge of Breckinridge County nearly all drilled wells in the alluvium of the Ohio River valley are adequate for domestic use with many wells yielding several hundred gallons per minute (gpm). Compound horizontal wells set in the alluvium may yield 5,000 gpm that is sufficient for a community or industrial supply. In the northern third, central highlands, and southeastern edge of Breckinridge County most drilled wells are adequate for a domestic supply. Yields as high as 100 gpm have been reported from wells penetrating fault zones. Depths of adequate wells range from 100 to 300 feet. In the remaining areas of the county only a few wells yield enough water for a domestic supply except in the lowland areas bordering streams where yields are sometimes sufficient for some wells to meet the supply needs for domestic use.
